

-	UNITED	STATES DEPARTMENT OF COMMI
	Address:	COMMISSIONED OF CATT
SERIAL NUMBER FILING DATE	FIRST NAMED INVENTO	Washington, D.C. 20231
08/430,698 04/27/95		ATTORNEY DOCKET
54727795	ISEBERG	
RUBERT		EXAMINER
ROBERT B POLIT MCANDREWS HELD AND MALL 500 W MADISON 34TH ELD	26M2/0807	ART UNIT PARES
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This is a communication from the examiner in charge of COMMISSIONER OF PATENTS AND TRADEMARKS	d rous u	2608 Date Mailed:
COMMISSIONER OF PATENTS AND TRADEMARKS		08/07/95
This application has been examined Resn	Onship to any	06 22 95
A shortened statutory period for response to this action i Failure to respond within the period for response will cau Part ! THE FOLLOWING ATTACHMENT	onsive to communication filed on_	U6 22 15 This action is made
a sporte will the period for response will as	- ( ITINE Inonth	s), days from the date of this letter
ATTACHMENT(S) ARE PAR	IT OF THIS ACTION	35 U.S.C. 133
1. Notice of References On the		
Notice of Art Cited by Applicant, PTO-1449.     Information on How to Effect Drawing Change:		otice of Draftsman's Patent Drawing Review, PTO-9
Part II SUMMARY OF ACTION	6. D	of Infarisman's Patent Drawing Review, PTO-9 stice of Informal Patent Application, PTO-152.
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/ ————————————————————————————————————		are pending in the applicatio
2. Ty Claims 1-2 /		are pending in the applicatio
2. [ Claims   1-2   3. [ Claims		
3. Claims		have been cancelled.
4. Sclaims 22 - 24 5. Claims		are allowed.
5. Claims		are rejected.
<ol> <li>This application has been filed with informal drawings</li> <li>Formal drawings are required in response to this Office</li> </ol>	under 37 C 5 D 1 os	are objected to. subject to restriction or election requirement.
8. Formal drawings are required in response to this Office	e action	cceptable for examination purposes.
are ☐ acceptable; ☐ not acceptable (see explanation  10. ☐ The proposed additional or substitute sheet(s) of december 1.	or Notice of Draftsman's Patent D	Under 37 C.F.R. 1.84 these drawings
examiner; disapproved by the examiner (see evel	ings, filed on	as (have) by
11. The proposed drawing correction filed	nation).	(Nave) been
11.  The proposed drawing correction, filed  12.  Acknowledgement is made of the claim for priority under the control of the claim for priority under the cla	has been approved;	☐ disapproved (see explanation)
parallon, serial no.	The certified cop	Y has D been seed to -
<ol> <li>Since this application apppears to be in condition for alloaccordance with the practice under Ex parte Quayle, 19;</li> <li>Other</li> </ol>	wance except for formal	
14. Other	25 C.D. 11; 453 O.G. 213.	rosecution as to the merits is closed in

Serial Number: 08/430698 -2-

Art Unit: 2608

### Part III DETAILED ACTION

## Claim Rejections - 35 USC § 112

1. Claims 22-24 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 22, line 24, "that otherwise would occur" should be deleted because it is vague and indefinite.

In claim 23, lines 21-22, "that otherwise would occur" should be deleted because it is vague and indefinite.

In claim 24, lines 7-8, "low frequency components" lacks antecedent basis; and lines 27-28, "that otherwise would occur" should be deleted because it is vague and indefinite.

## Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. § 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of

Serial Number: 08/430698

Art Unit: 2608

this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. § 103, the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 C.F.R. § 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of potential 35 U.S.C. § 102(f) or (g) prior art under 35 U.S.C. § 103.

3. Claim 22 is rejected under 35 U.S.C. § 103 as being unpatentable over Miller in view of Gauthier, McCabe and further in view of Killion (4,677,679).

Miller teaches that an insert earphone comprises a unitary housing having a hollow body portion (29 and see figure 2). The hollow body portion (11, 29) has an end wall, an open end (see the opening for the cable 18), and a hollow elongated tubular portion (11) extending from the end wall. In addition, Miller shows that an end cap (not numbered, see the end cap for the cable 18) is connected to cover the open end (the opening for the cable of the hollow body portion (29), a cable (16, 18, column 2 lines 56-62) includes plural conductors. Further, Miller shows that a receiver (19) has a sound outlet port (not numbered, see figure 2), a damper (26).

Miller lacks the teaching of a resilient inserting disposed between the receiver and the interior walls of the unitary housing. Serial Number: 08/430698

Art Unit: 2608

Gauthier teaches that a resilient insert (36) is packed surround the receiver (32). Since Miller and Gauthier teaches a body of the material surrounding the receiver for attenuating and dampening of spurious sound waves entering through the housing, it would have been obvious to one skilled in the art to provide the resilient material, as taught by Gauthier, in order to substitute the body of the liquid in the Miller. This would provide a better material to prevent the mechanical vibrations of the receiver from being transmitted to the housing, and the feedback from the source.

Miller in view of Gauthier does not specifically teach a resilient sealing member disposed over the tubular portion. However, it is very well known in the art to provide a resilient sealing member disposed over the earpiece. McCabe teaches this sealing member (8a, 8b). Therefore, it would have been obvious to one skilled in the art to provide a sealing member, as taught by McCabe, disposed over the tubular portion of the Miller, in order to provide a replaceable eartip to the earpiece.

Miller in view of Gauthier and McCabe does not teach a high fidelity response for the earphone. However, it is very well-known in the art to provide a high-fidelity earphone. Further, Killion teaches a network (40a) in the earphone for providing a high-fidelity response (column 3, lines 42-50 and column 6, lines 44-56). Therefore, it would have been obvious to one skilled in the art to provide a network, as taught by Killion, in the earphone of

Serial Number: 08/430698 -5-

Art Unit: 2608

the Miller in view of Gauthier and McCabe in order to provide a high quality sound for the earphone.

4. Claims 23 and 24 are rejected under 35 U.S.C. § 103 as being unpatentable over McCabe in view of Langford and further in view of Killion (4,677,679).

Regarding claims 23 and 24, McCabe teaches that an apparatus comprises an electrical connector (3a, 3b), plural conductors (4a', 4a", 4b', 4b"), and a pair of insert earphones (2a, 2b). The earphones comprise a unitary housing (2a, 2b), a receiver (5), and a resilient sealing member (8a, 8b).

McCabe lacks the teaching of a damper supported within the hollow elongated tubular portion (7a, 7b). However, it is very well-known in the art to provide a damper disposed at the hollow tube which is connected to the ear canal of the wearer. Further, Langford shows this damper (41). Therefore, it would have been obvious to one skilled in the art to provide the damper, as taught by Langford, in the hollow elongated tubular portion of the McCabe headset for attenuating the acoustic of the sound path.

McCabe in view of Langford does not teach a high fidelity response or a filter for the earphone. However, it is very well-known in the art to provide a filter for improving the quality sound of the earphone. Further, Killion teaches a network circuit (40a, 40a', 40b) in the earphone for providing a high-fidelity response (column 3, lines 42-50 and column 6). Therefore, it would

Serial Number: 08/430698

Art Unit: 2608

have been obvious to one skilled in the art to provide a network circuit or the filter, as taught by Killion, in the earphone of the McCabe in view of Langford in order to provide a high quality sound for the earphone.

# Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Ambrose teaches a high fidelity earphone or hearing aid.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Huyen Le whose telephone number is (703) 305-4844. The examiner can normally be reached on Monday to Friday from 8:30am to 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Curtis Kuntz, can be reached on (703) 305-4708. The fax phone number for this Group is (703) 305-9508.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703)/(305-4750).

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m HL}$ 

August 2, 1995

Haven Le

Patent Examiner

-6-

Group 2600